

6097.

## MSDS FOR NEEDLE EASE.txt

## MATERIAL SAFETY DATA SHEET

HMIS Personal Protective Equipment NFPA  
See Section 8.

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product code: G1040

Product Name: GLYCERIN, SYNTHETIC, FCC

Chemical Name: Glycerol

Synonyms: 1,2,3-Propanetriol

1,2,3-Trihydroxypropane

Glycerin mist

Glycerin, anhydrous

Glycerin, synthetic

Glycerine

Glyceritol

Glycyl alcohol

Grocolene

Osmoglyn

Synthetic glycerin

Trihydroxypropane

glicerina (Spanish)

glycérine (French)

Recommended use: Solvent. Cosmetics. Lubricant. Soaps. In foods.

CAS #: 56-81-5

Formula: C3-H8-O3

RTECS # MA8050000

CI#: Not available

Supplier: Spectrum Chemicals and Laboratory Products, Inc.

14422 South San Pedro St.

Gardena, CA 90248

(310) 516-8000

Emergency Telephone Number: CHEMTREC: 1-800-424-9300

Contact Person: Martin LaBenz (West Coast)

Contact Person: Chris Terpak (East Coast)

## 2. HAZARDS IDENTIFICATION

Product code: G1040 Product name: GLYCERIN, 1 / 11

SYNTHETIC, FCC

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## 2. HAZARDS IDENTIFICATION

## EMERGENCY OVERVIEW

May cause skin and eye irritation. May cause irritation of respiratory tract.

Odor: Physical state: Appearance: Color:

Mild. Liquid. Viscous. Syrupy. Clear. Colorless.

OSHA Regulatory Status This material is not considered hazardous by the OSHA Hazard Communication

Standard (29 1910.1200)

## POTENTIAL HEALTH EFFECTS

Principal Routes of Exposure:

Skin. Ingestion. Eyes.

Acute Potential Health Effects:

Skin Contact:

May cause skin irritation. May be fatal if absorbed through skin. If absorbed through skin it may cause systemic effects with symptoms similar to those of ingestion.

Eye Contact:

May cause eye irritation.

Inhalation:

May cause irritation of respiratory tract.

Ingestion:

No information available. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhoea. May cause central nervous system effects. May affect the liver. May affect the cardiovascular system. It may affect the kidneys. May affect the blood.

Chronic Potential Health Effects:

Component

Carcinogen Status:

Glycerin

No information available

56-81-5 (100)

Target Organs: No information available

Teratogenic Effects: No information available

Mutagenic Effects: May affect genetic material  
Experiments with human lymphocytes have shown mutagenic effects

Aggravated Medical Conditions: No information available

See Section 11 for additional Toxicological Information

POTENTIAL ENVIRONMENTAL EFFECTS

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Components CAS-No. weight %  
Glycerin 56-81-5 100

4. FIRST AID MEASURES

General Advice: Poison information centres in each state capital city can provide additional assistance for scheduled poisons (13 1126)

Skin Contact: wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops.

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Eye Contact: Flush eye with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

Notes to Physician: Treat symptomatically

## 5. FIRE-FIGHTING MEASURES

### Flammable Properties

Flashpoint (°C/°F): 177°C/350.6 °F

160 °C/320 °F

Tested according to:

Open cup

Closed cup

Lower Explosion Limit (%): No information available

Upper Explosion Limit (%): No information available

Autoignition Temperature (°C/°F): 370-392 °C/698-739 °F

Suitable Extinguishing Media: Carbon dioxide (CO<sub>2</sub>). Dry chemical. water spray mist or foam.

Unsuitable Extinguishing Media: No information available.

Hazardous Combustion Products: Carbon monoxide; Carbon monoxide

Specific hazards: May be combustible at high temperatures. May be ignited by heat, sparks or flames. Container explosion may occur under fire conditions or when heated.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

Specific Methods: No information available.

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions:

Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Remove all sources of ignition.

### Environmental Precautions:

No information available..

### Methods for Cleaning Up:

Absorb spill with inert material (e.g. vermiculite, dry sand or earth), then place in a suitable chemical waste container.

Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

### Handling

#### Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

#### Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapors or spray mist. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

### Storage

#### Technical Measures/Storage Conditions:

Hygroscopic. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

#### Incompatible Products:

Oxidizing agents. Acids. Acid anhydrides. Aniline. Nitrobenzene.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure: Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

### Personal Protective Equipment

Eye protection: Goggles. Safety glasses with side-shields.

Skin and body protection: Long sleeved clothing. Chemical resistant apron. Gloves.

Respiratory protection: Respiratory protection is not necessary for normal handling. Good room ventilation or use of local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

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National occupational exposure limits  
United States

U.S Occupational Exposure Limits:  
Components OSHA NIOSH ACGIH AIHA WHEEL  
Glycerin - 56-81-5

15 mg/m3 TWA None 10 mg/m3 TWA mist None

Canada

Canada Occupational Exposure Limits:

Components Alberta British Columbia Quebec Ontario

Glycerin

56-81-5

10 mg/m3 TWA 10 mg/m3 TWA

3 mg/m3 TWA respirable

10 mg/m3 TWAEV mist 10 mg/m3 TWA

Australia and Mexico

Occupational Exposure Limits for Australia and Mexico:

Components Australia Mexico

Glycerin

56-81-5

10 mg/m3 TWA 10 mg/m3 TWA

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Liquid.

Odor:

Mild.

Flash point (°C):

160

Autoignition Temperature (°C/°F):

370-392 °C/698-739 °F

Melting point/range(°C/°F):

19-20 °C/66.2-68 °F

Density (g/cm3):

No information available

Vapor density:

3.17

Odor threshold (ppm):

No information available

solubility:

Freely soluble in water

Insoluble in Benzene

Insoluble in Chloroform

Insoluble in Carbon disulfide

Insoluble in Carbon tetrachloride

Insoluble in Petroleum ether

Appearance:

Viscous. Syrupy.

Taste

Sweet.

Lower Explosion Limit (%):

Not applicable

pH:

No information available

Decomposition temperature(°C/°F):

No information available

Bulk density:

No information available

Evaporation rate:

No information available

Partition coefficient  
(n-octanol/water):

-1.76

Color:

Clear. colorless.

Molecular/Formula weight:

No information available

Upper Explosion Limit (%):

Not applicable

Boiling point/range(°C/°F):

290 °C/554 °F

Specific gravity:

1.2613-1.2636 @ 20 °C

Vapor pressure @ 20°C (kPa):

0

VOC content (g/L):

No information available

Miscibility:

No information available

#### 10. STABILITY AND REACTIVITY

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#### 10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions

Conditions to avoid: Heat. Ignition sources. Exposure to moist air. Exposure to moisture.

Materials to avoid: Strong oxidising agents. Acids. Acid anhydrides. Nitrobenzene.

Hazardous decomposition products: Carbon monoxide. Carbon dioxide.

Possibility of Hazardous It can react vigorously, violently or explosively with oxidizers

Reactions: Glycerin is incompatible with strong oxidizers such as chromium trioxide, potassium chlorate, or potassium permanganate and may explode on contact  
Explosive glyceryl nitrate is formed from a mixture of glycerin and nitric and sulfuric acids

When Perchloric acid and Lead oxide are mixed with glycerin, perchloric esters are formed, which may be explosive

Glycerin and chlorine may explode if heated and confined

Glycerin may react violently with acetic anhydride, aniline, nitrobenzene, chromic oxide, lead oxide, fluorine, phosphorous triiodide, ethylene oxide, silver perchlorate, sodium peroxide, and sodium hydride

Polymerization: Hazardous polymerisation does not occur

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

#### 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Glycerin - 56-81-5

LD50/oral/rat = 12600 mg/kg Oral LD50 Rat

LD50/oral/mouse = 4090 mg/kg

LD50/dermal/rabbit =

No information available

LD50/dermal/rat = > 21900 mg/kg Dermal LD50 Rat

LC50/inhalation/rat =

No information available

LC50/inhalation/mouse =

No information available

Other LD50 information =

27 gm/kg LD50 oral Rabbit

Product Information

LC50/inhalation/rat =

No information available

LC50/Inhalation/mouse =

No information available

LD50/dermal/rabbit =

No information available

LD50/dermal/rat = > 21900 mg/kg

LD50/oral/rat = 12600 mg/kg

LD50/oral/mouse = 4090 mg/kg

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Local Effects

Skin irritation: May cause skin irritation. Mild skin irritation.

Eye irritation: Contact with eyes may cause irritation. Mild eye irritation.

Inhalation: May cause irritation of respiratory tract.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. May

cause dehydration. May cause thirst. May affect the cardiovascular system (cardiac arrhythmias). May cause hyperglycemia. May affect liver . May affect urinary system (kidneys). It may affect behavior/excitement, central nervous system (depression, general anesthetic, headache, dizziness, convulsions, confusion, insomnia, muscle weakness). May affect blood (changes in serum composition).

Sensitization: No information available

Chronic Toxicity

Chronic Toxicity Prolonged or repeated ingestion may affect the blood (changes in white blood cell

count). Prolonged or repeated ingestion may affect the blood (changes in serum composition).

Carcinogenic effects: Not considered carcinogenic

Components NTP IARC OSHA HCS Carcinogens

ACGIH - Carcinogens Australia - Prohibited

Carcinogenic

Substances

Australia - Notifiable

Carcinogenic

Substances

Glycerin Not listed Not listed Not listed Not listed Not listed Not listed

Mutagenic Effects: May affect genetic material

Experiments with human lymphocytes have shown mutagenic effects

Reproductive Effects: May cause adverse reproductive effects based on animal test data.

Teratogenic Effects: No information available

Target Organs: No information available

12. ECOLOGICAL INFORMATION

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ECOTOXICITY

Toxicity to terrestrial and aquatic plants and animals: Information given is based on data on the components and

the ecotoxicology of similar products  
Ecotoxicity effects: Aquatic environment.

Aquatic toxicity:

Glycerin - 56-81-5

Freshwater Fish Species Data: 51 - 57 mL/L LC50 Oncorhynchus mykiss 96 h static 1  
Water Flea Data: 500 mg/L EC50 Daphnia magna 24 h

Mobility: No information available

Persistence and degradability: No information available

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Bioaccumulative potential: No information available

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components RCRA - F Series Wastes RCRA - K Series Wastes RCRA - P Series Wastes RCRA - U Series Wastes

Glycerin None None None None

14. TRANSPORT INFORMATION

DOT

UN-No: Not regulated

Proper Shipping Name: No information available

Hazard Class: No information available

Packing Group: None

Subsidiary Risk: Not applicable

Marine Pollutant No data available

ERG No: No information available

DOT RQ (lbs): No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name: No information available

Hazard Class: No information available

Packing Group: No information available

Subsidiary Risk: No information available

Description: No information available

ADR

UN-No: Not Regulated

Proper Shipping Name: No information available

Hazard Class: No information available

Packing Group: No information available

Subsidiary Risk: No information available

Classification Code: No information available

Description: No information available

CEFIC Tremcard No: No information available

IMO / IMDG

UN-No: Not Regulated  
Proper Shipping Name: No information available  
Hazard Class: No information available  
Subsidiary Risk: No information available  
Packing Group: No information available  
Description: No information available  
IMDG Page: No information available  
Marine Pollutant No information available  
MFAG: No information available  
Maximum Quantity: No information available

RID

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UN-No: Not Regulated  
Proper Shipping Name: No information available  
Hazard Class: No information available  
Packing Group: No information available  
Subsidiary Risk: No information available  
Classification Code: No information available  
Description: No information available

ICAO

UN-No: Not Regulated  
Hazard Class: No information available  
Proper Shipping Name: No information available  
Packing Group: No information available  
Subsidiary Risk: No information available  
Description: No information available

IATA

UN-No: Not Regulated  
Proper Shipping Name: No information available  
Hazard Class: No information available  
Packing Group: No information available  
Subsidiary Risk: No information available  
Description: No information available

15. REGULATORY INFORMATION

International Inventories

Components U.S. TSCA Philippines  
(PICCS)

KOREA

KECL

Japan

ENCS

CHINA Australia

(AICS)

EINECS-No.

Glycerin Present Present KE-29297 2-242

7-338

Present Present 200-289-5

U.S. Regulations

Glycerin

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Massachusetts RTK: Present  
New Jersey RTK Hazardous Substance List: Present  
Pennsylvania RTK: Present  
RI RTK - Hazardous Substances List: Present  
Minnesota - Hazardous Substance List: Present

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components Carcinogen Developmental Toxicity Male Reproductive  
Toxicity  
Female Reproductive  
Toxicity:  
Glycerin Not Listed Not Listed Not Listed Not Listed

CERCLA/SARA

Components CERCLA - Hazardous  
Substances and their  
Reportable Quantities  
Section 302 Extremely  
Hazardous  
Substances and TPQs  
Section 302 Extremely  
Hazardous  
Substances and RQs  
Section 313 Chemical  
Category  
Section 313 - Reporting de minimis  
Glycerin None None None None None

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U.S. TSCA  
Components TSCA Section 5(a)2 - Chemicals with significant  
New Use Rules (SNURS)  
TSCA 8(d) -Health and Safety Reporting  
Glycerin Not Applicable Not Applicable  
Canada

WHMIS hazard class:

Non-controlled

Glycerin

Uncontrolled product according to WHMIS classification criteria

Canada Controlled Products Regulation:

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This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Components Canada (DSL) Canada (NDSL)  
Glycerin Present Not Listed

Components CEPA Schedule I - Toxic Substances CEPA - 2010 Greenhouse Gases Subject to Mandatory

Reporting  
Glycerin Not listed Not listed

EU Classification  
R -phrase(s)

not determined

S -phrase(s)

none

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

Not dangerous

16. OTHER INFORMATION

The MSDS format complies with ANSI Z400.1-2004 standards.  
Preparation Date 27-Jun-2011

Product code: G1040 Product name: GLYCERIN, 10 / 11SYNTHETIC, FCC

□  
Reason for revision: Not applicable

Prepared by: Sonia Owen

Literature reference: No information available

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. The physical properties reported in this MSDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained

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